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TECHNICAL TRANSLATIONS

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CLEARINGHOUSE
FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION
An agency of the U.S. Department of Commerce

May 15, 1965 Volume 13, Number 9

TECHNICAL TRANSLATIONS

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PURPOSE

Technical Translations announces to the public the availability and provides order information for translated scientific and technical reports, periodicals and books. Although most of the literature has been translated into English, some is in other Western European languages. The language of the translation, if other than English, is noted in the citation. Most of the material is of Soviet origin, but works from Eastern and Western European countries and from the Orient, especially Japan and Communist China, are also cited. In order to avoid duplication of effort, translations in process are also announced.

FORMAT

This journal is separated into five sections:

(1) Bibliographic citations are listed alphabetically by author or title under broad subject headings.

(2) Book Reviews of translated scientific and technical literature are listed.

(3) Translations in Progress: lists titles of translations being prepared by government and private sources. All Special Foreign Currency Science Information (SFCSI) Program translations are listed (formerly PL 480 Program).

(4) Translated Periodicals: "Periodicals Translated Cover-To-Cover" lists titles of approximately 190 technical and scientific periodicals regularly translated into English. "Tables of Contents of Recently Translated Journal Issues" are included; they are preceded by a list of the foreign titles of the journals from which they are taken.

(5) Indexes: three indexes are arranged by author, journal and translation number.

HOW TO ORDER

Each bibliographic entry contains the acronym or initials of the agency from which the translation is to be ordered; these are keyed to the complete list of ordering addresses preceding the first section. Order by the title and number given in the citation. Translations available from the Clearinghouse (CFSTI) often have alternative prices cited as hard copy (HC) and microfiche copy (MF). Make check or money order payable to agency indicated. Most of the literature is available from the Clearinghouse, the Special Libraries Association Translations center (SLA), or the European Translations Centre (ETC).

REFERENCE SERVICE

Reference services for the location and identification of translated materials, completed or in process, are provided by the Clearinghouse, Special Libraries Association Translations Center, and the European Translations Centre. Mailing addresses are listed in the pages headed "How To Order Translations."

TRANSLATORS

The work of translating the material listed is being done at many points, domestic and foreign, government and private. Among them are the Joint Publications Research Service, which translates foreign research at the request of other Federal agencies; commercial translators; publishers; and universities. The Special Foreign Currency Science Information Program, administered by the National Science Foundation, produces translations prepared in the participating countries of Israel, Poland and Yugoslavia. The Special Libraries Association is responsible for collecting translations from non-government sources, domestic and foreign, and the Clearinghouse from foreign and U.S. Government sources. Translators may have their works cited in the journal by sending the bibliographic and availability information to the Clearinghouse. A copyright release statement is required if the works are to be sold by the Clearinghouse.

U.S. DEPARTMENT OF COMMERCE
John T. Connor, Secretary

CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION
Springfield, Va. 22151
Bernard M. Fry, Director

Contents may be reprinted freely. Mention of source will be appreciated.
Use of Funds for printing this publication approved by the Director of the Bureau of the Budget, November 22, 1961.

special ANNOUNCEMENTS

A SINGLE INDEX FOR NEW FEDERAL R &D REPORTS

A new Clearinghouse publication provides scientists, engineers, librarians and management with a single index to new unclassified Government-sponsored technical reports.

Entitled Government-Wide Index to Federal Research and Development Reports, it will be made up from machinable index records prepared by the Atomic Energy Commission, National Aeronautics and Space Administration, Department of Defense, and the Clearinghouse.

Government-sponsored research reports included in the following agency announcement journals will be indexed in the new publication:

Nuclear Science Abstracts (AEC)

Scientific and Technical Aerospace Reports (NASA)

Technical Abstract Bulletin (Defense Documentation Center)

U.S. Government Research and Development Reports (Clearinghouse)

Technical Translations is not included in the program at this time. However, certain foreign translations cited in Technical Translations that are also announced in one of the four journals listed above, will of course, be indexed.

Appearing the 15th of each month, the Government-Wide Index will list the reports announced during the previous month.

For this project, the Clearinghouse is initially using the computer facilities of the Aerospace Research Applications Center at the University of Indiana. The journal records, in the form of punched paper tapes, magnetic tapes, and cards, are fed into the computer which merges them into a single index under the five access points of subject, corporate author, personal author, accession number and report number.

How to Order

The Government-Wide Index to Federal Research and Development Reports will be printed and sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402. Price is $10 for a one-year subscription (12 issues); add $2.50 for foreign mailing; single issue, $1.25. Make remittance payable to Superintendent of Documents.

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CUMULATIVE INDEXES

The following Cumulative Indexes for Technical Translations are available from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402:

Volume 10 July - December	1963	$2.00
Volume 9 January - June	1963	$1.00
Volume 8 July - December	1962	$1.00
Volume 7 January - June	1962	$1.00
Volume 6 July - December	1961	$1.00
Volume 5 January - June	1961	$1.00
Volume 4 July - December	1960	$1.00
Volume 3 January - June	1960	$1.00
Volume 2 July - December	1959	$3.00
Volume 1 January - June	1959	$1.50

HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood, California 90046

AGI
AGI Translations Office
American Geological Institute
1444 N Street, N. W.
Washington, D. C. 20005

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
Suite 506, 1145 19th Street, N. W.
Washington, D. C. 20036

AIAA
American Institute of Aeronautics & Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. & The Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Avenue
New York, New York 10003

ARS
American Rocket Society, Inc.
20th & Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron & Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises, Inc.
227 West 17th Street
New York, New York 10011

CBT
Centre Belge de Traductions
Bibliotheque Royale
4 Boulevard de l'Empereur
Brussels, Belgium

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CFSTI
Clearinghouse for Federal Scientific & Technical Information (Formerly Office of Technical Services)
Port Royal & Braddock Roads
Springfield, Virginia 22151
(Also available through Department of Commerce Field Offices)

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion,
Patronato Juan de la Cierva,
Serrano 150, Apartado 743
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIR
Council for Scientific and Industrial Research
The Head
Information Division
P. O. Box 395
Pretoria, Republic of South Africa

CSIRO
Commonwealth Scientific & Industrial Research Organization
Information Service
314 Albert Street,
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D. C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire, England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

ETH
Eidgenossische Technische Hochschule
Zurich, Switzerland

ETHB
Eidgenossische Technische Hochschulbibliotek
Leonhardstrasse 33
Zurich, Switzerland

EURO-T. S.
Euro-Translation Service
20 Rue Europe
Grivegnée (Liège), Belgium

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D. C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire, England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue.
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P. O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P. O. B. 569
London, S. E. 1, England

HTCBN
Hungarian Trading Company for Books & Newspapers "Kultura"
Budapest 62, P. O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Connecticut 06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
Kiryat Moshe
P. O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D. C. 20540

LNEC
Laboratorio Nacional de Engenharia Civil
Ministerio das Obras Publicas
Avenida do Brasil
Lisbon 5, Portugal

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S. E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MFA/TS
Metal Finishing Abstracts Translation Services
85 Udney Park Road
Teddington, Middlesex, England

MPIK
Max-Planck-Institut fur Kohlenforschung
Bibliothek der Abteilung Strahlenchemie Stiftstrasse 34-36
433 Mulheim and der Ruhr,
West Germany

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NLL
National Lending Library for Science and Technology
Boston Spa, Yorkshire, England

NRCC
National Research Council, Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
Japanese Language Translation Service
15/2027 Chogo
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
,661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

SSSA
Soil Science Society of America, Inc.
Program Director, Soviet Soil Science
677 South Segoe Road
Madison, Wisconsin 53711

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STC
Swedish Translation Centre
Kunglige Tekniske Hogskolans Bibliotek
Stockholm, Sweden

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, Calif. 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TC
Trans-Chem
Chemical Translation Service
1216 Oakdale, S. E.
Knoxville, Tennessee 37914

TDL
Mr. John Wiley
Technical Development Laboratories
P. O. Box 769
Savannah, Georgia 31400

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street,
London, E. C. 4, England

TIB
Technische Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W. C. 2, England

TTIS
Translation and Technical Information Services
32 Manaton Road
London, S. E. 15, England

UBO
Royal University Library
Drammensveien 42B
Oslo, Norway

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

UNITED STATES DEPARTMENT OF COMMERCE
Clearinghouse for Federal Scientific and Technical Information
Formerly Office of Technical Services
Springfield, Va. 22151

TECHNICAL TRANSLATIONS

Volume 13, Number 9 | Pages 731 - 799 | May 15, 1965

AGRICULTURE

APPLICATION OF CHEMISTRY IN AGRICULTURE.
7 Dec 64 [38p] JPRS: 27710.
Order from CFSTI or ETC HC $2.00, MF $0.50 TT-64-51876

Trans. of Khimiya v Sel'skom Khozyaistve (USSR) 1964 [v. 2] no. 7[9] p. 6-10, 45-48, 51-53, 58-62.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

Kontorshchikov, A. S.
ESTIMATING THE INFLUENCE OF IRRIGATION ON THE REDUCTION OF DAMAGING EFFECT OF THE SUKHOVEIS. 13p 28refs
Order from SLA $1.60 TT-65-11352

Trans. of Tsentral'nyi Institut Prognozov. Trudy (USSR) 1960, no. 98, p. 48-55.

Magnitskii, K.P.
DETERMINACION DEL REMEN NUTRITIVO DEL SUELO MEDIANTE EL ANALISIS QUIMICO DE LAS PLANTAS (Otsenka Pitatel'nogo Rezhima Pochvy Khimicheskomu Analizu Rastenii). 47p. CID: 64-551.
Order from ETC or CID $4.60 TT-64-26551

Trans. in Spanish of Pochvovedenie (USSR) 1954. no.7, p.113-125.
Another trans. is available from SLA as RT-4086.

Mkrtchyan, B. L.
DITILIN FOR NARCOTIZING OF ANIMALS (Ditilin dlya Obezdvizhivaniya Zhivotnykh). 9 Oct 64, 2p Trans. V-1950.
Order from CFSTI or ETC HC $1.00, MF $0.50 TT-65-61505

Trans. of Veterinariya (USSR) 1964, v. 41, no. 5, p. 88.

Plant Cultivation

AGENTS FOR COMBATTING HARMFUL ORGANISMS IN THE SOIL. 6p
Order from SLA $1.10 TT-64-30587

Trans. of Norwegian patent 90,904, by Diamond Alkali Co., Cleveland, Ohio, filed 14 Nov 55, granted 7 Dec 57, pub. 3 Feb 58.

PROCESS FOR THE COMBATTING OF PESTS. 2p 2refs
Order from SLA $1.10 TT-64-30601

Trans. of Swiss patent 242,300, by CIBA Corp., Basel, Switzerland, filed 25 May 44, granted 15 May 46, pub. 1 Oct 46.

THE USE OF CHEMISTRY IN AGRICULTURE.
5 Nov 64 [78p] 230refs JPRS: 27230.
Order from CFSTI HC $3.00, MF $0.75 TT-64-51485

Trans. of Khimiya v Sel'skom Khozyaistve (USSR) 1964, v. 2, no. 8(10) p. 2-6, 35-68.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

Incomplete entry pub. in v. 13, no. 5.

Idoardi, Gualtiero.
PROCESS FOR INCREASING THE FERTILITY OF THE SOIL AND PRODUCT OR MIXTURE OF PRODUCTS FOR CARRYING OUT THE PROCESS. 6p
Order from SLA $1.10 TT-64-30583

Trans. of Italian patent 492,469, filed 12 Sep 52, granted 26 Mar 54.

Jones, Franklin D.
IMPROVEMENTS IN COMPOSITIONS FOR THE DESTRUCTION OF HARMFUL PLANTS AND METHOD OF APPLICATION FOR SUCH COMPOSITIONS. 6p
Order from SLA $1.10 TT-64-30579

Trans. of Italian patent 441,817, by American Chemical Paint Co., Ambler, Pa., filed 30 Sep 46, granted 12 Nov 48 (Priority: U.S., 20 Mar 44).

Kulieva, N. A.
THE EFFECT OF PETROLEUM-BASE GROWTH STIMULANT (NRV) ON THE PREMATURE FALLING OF OLIVES. 4p.
Order from ATS $6.25 ATS-30S81R

Trans. of Akad[emiya] Nauk Azerb[aidzhanskoi] SSR [Baku]. Dokl[ady] 1964, v. 20, no. 6, p. 73-75.

Magnitskii, K.
PREVENCION Y TRATAMIENTO DE LA CARENCIA DE NITROGENO Y FOSFORO EN LAS PLANTAS (Preduprezhdenie i Ustranenie Azotnoe i Fosfornoe Golodanie Rastenii). 24p. CID: 64-550.
Order from ETC or CID $2.60 TT-64-26550

Trans. in Spanish of Nauka i Peredovoi Opyt v Sel'skom Khozyaistve (USSR) 1959, no.6, p.46-50.

Pervovskii, A. N. and Korzhuev, A. S.
METHOD OF TREATING SOILS. 1p
Order from SLA $1.10 TT-64-30590

Trans. of Russian patent 107,658, filed 30 July 56 under No. 555,421. Original authors' certificate No. 100,527, in the names of G. V. Bogomolov, A. S. Korzhuev, and M. M. Kudryavtseva. Other trans. are available from ATS $1.85 as ATS-72Q69R (1p) and from CFSTI, SLA, or ETC $1.10 as TT-63-20819 (2p).

Saburova, P.
EFFECT OF HERBICIDE, 2-METHYL-4-CHLOROPHENOXYBUTYRIC ACID, ON VARIOUS VARIETIES AND SORTS OF CULTIVATED PLANTS AND ON WEEDS. 7p
Order from SLA $1.10 TT-65-10993

Trans. of Nauchnaya Konferentsiya po Zashchite Rastenii. Doklady (Lithuanian SSR) 1960, p. 420-424.

Sexton, Wilfred A.
PREPARATIONS FOR THE PREVENTION AND ARRESTING OF THE GROWTH OF WEEDS. 3p
Order from SLA $1.10 TT-64-30578

Trans. of Italian patent 433,855, by Imperial Chemical Industries Ltd., London, filed 21 Aug 46, granted 15 Apr 48 (Priority: Gt. Brit., No. 14,865, 28 Oct 42).

Sexton, Wilfred A., Hade, Roland E., and Templeman, William G.
PREPARATIONS FOR PREVENTING AND SUPPRESSING THE GROWTH OF WEEDS. 2p
Order from SLA $1.10 TT-64-30575

Trans. of Italian patent 433,333, by Imperial Chemical Industries, Ltd., London, filed 8 Aug 46, granted 7 Apr 48 (Priority: Gt. Brit., appl. No. 4,598, 7 Apr 41).

ASTRONOMY

Astrophysics

Al'tov, G. and Zhuravleva, V.
JOURNEY TO THE EPICENTRE OF A POLEMIC (Puteshestvie k Epitsentru Polemiki)
J. W. Palmer, tr. Jun 64 [18p] 28refs
RAE Library Trans. no. 1068.
Order from CFSTI or ETC HC $1.00, MF $0.50 TT-65-60397

Trans. of Zvezda (USSR) 1964, no. 2, p. 130-138.

Katasev, L. A.
PHOTOGRAPHIC METHODS IN METEOR ASTRONOMY, 1964. 120p 106refs PL-480 NASA; NASA T[echnical] T[rans.] F-142.
Order from CFSTI HC $4.00 N65-14624

Trans. of mono. Fotograficheskie Metody Meteornoi Astronomii, Moscow, 1957 [157p].

Milkhikyer, M. A.
OBSERVATIONS OF A PARTIAL LUNAR ECLIPSE ON 24 MAR 59.
George Kasachkoff, tr. Jan 65 [10p] 3refs RSIC-368.
Order from CFSTI or ETC HC $1.00, MF $0.50 AD-612 373

Trans. of Vsesoyuznoe Astronomo-Geodezicheskoe Obshchestvo. Byulleten' (USSR) 1960, no. 27(34) p. 32-36.

Moroz, V. I.
SUPPLEMENT TO PAPER BY CARL SAGAN AND W. KELLOGG "THE TERRESTRIAL PLANETS". 25p 61refs
Order from SLA $2.60 TT-65-11296

Trans. of Uspekhi Fizicheskikh Nauk (USSR) 1964, v. 83, no. 2, p. 287-298.

BEHAVIORAL SCIENCES

Castillo, R., Serrano, J., Caralps, A., and Vinas, M.
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(Bulletin from the Institutes of Higher Learning. Chemistry and Chemical Technology)
Translation begins with 1965, v. 8, no. 1 -
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PALEONTOLOGICHESKIY ZHURNAL
(Paleontological Journal)
Translation begins with 1962, no. 1 -
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Washington, D. C. 20005

PLASTICHESKIE MASSY
(Soviet Plastics)
Translation begins with 1960, no. 7 -
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Order from:
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Great Peter Street
London, S. W. 1, England

PRIBORY I TEKHNIKA EKSPERIMENTA
(Instruments and Experimental Techniques)
Translation begins with 1958, no. 1 -
Bimonthly
1958-1960, $35.00/year; 1961, available in xerox copy only, special price; 1962-1964, $35.00/year
1965 -

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Pittsburgh, Pennsylvania 15219

SOVETSKAYA GEOLOGIYA
(Soviet Geology)
Translation begins with 1960, no. 1 -
The whole Russian journal is being translated; selected papers only are published in International Geology Review (IGR). Papers not published in IGR can be obtained at 15 cents/page, photocopy, from:

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VESTNIK MOSKOVSKOGO UNIVERSITETA. SERIYA FIZIKA, ASTRONOMIYA
(Moscow University Bulletin. Physics and Astronomy)
Translation begins with 1965, v. 20, no. 1 -
Bimonthly

Order from:
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VESTNIK MOSKOVSKOGO UNIVERSITETA. SERIYA KHIMIYA
(Moscow University Bulletin. Chemistry)
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1964, v. 9, no. 10, p. 926-932, 946-950.
Order from CFSTI or ETC HC $1.00, MF $0.50 TT-64-51806

Moskovskoe Obshchestvo Ispytatelei C-558
Prirody. Byulleten'. Otdel Geologicheskii (USSR)
1957, v. 32(62) nos. 4-6.
Order from CFSTI HC $8.36 TT-63-11134/4-6

Khimiya v Sel'skom Khozyaistve (USSR).... C-561
1964, no. 8, p. 2-6, 35-68.
Order from CFSTI HC $3.00, MF $0.75 TT-64-51485

Khimiya v Sel'skom Khozyaistve C-562
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1964 [v. 2] no. 7, p. 6-10, 45-48, 51-53, 58-62.
Order from CFSTI or ETC HC $2.00, MF $0.50 TT-64-51876

Elektroliticheskoe Osazhdenie C-563
Splavov, Moscow, 1961
Order from CFSTI HC $6.00 TT-64-11015

Ferromagnitnyi Rezonans, Moscow, ... C-564
1961 [343p].
Order from CFSTI HC $6.00 TT-64-11019

Gidrodinamicheskii Dolgosrochnyi C-566
Prognoz Pogody, Moscow,
1964, p. 5-18, 42-61, 99-106.
Order from CFSTI or ETC HC $3.00, MF $0.75 TT-64-41435

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Order from CFSTI HC $3.00 TT-63-11458/11

Meteorologiya i Gidrologiya (USSR) C-572
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Order from CFSTI or ETC HC $3.00, MF $0.75 TT-64-51029

Mikrobiologiya (USSR) C-573
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Order from CFSTI HC $1.00, MF $0.50 TT-64-31320

Izvestiya Vysshikh Uchebnykh C-574
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Order from CFSTI HC $6.00, MF $1.50 TT-64-41750

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Order from CFSTI or ETC HC $6.00, MF $1.50 TT-64-41745

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Mirnomu Ispol'zovaniyu Atomnoi Energii, Tashkent [1959]. Trudy, v. 2, 1960 [450p].
Order from CFSTI or ETC HC $7.00, MF $2.75 AEC-tr-6390

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Order from CFSTI or ETC HC $3.00, MF $0.75 TT-64-41452

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Order from CFSTI or ETC HC $3.00, MF $0.75
TT-64-51335

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Sbornik Dokladov,
1962, 134p.
Order from CFSTI HC $4.00, MF $1.00 AD-607 854

Fizika Tverdogo Tela (USSR) C-587
1964, v. 6, no. 6, p. 1573-1915;
no. 7, p. 1921-2225; no. 8, p. 2229-2562;
no. 9, p. 2569-2886.
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Uspekhi Fizicheskikh Nauk (USSR) C-600
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p. 1-115ff; no. 6, p. 1-120ff.
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Vermessungstechnik (East Germany) C-613
1964, v. 12, no. 10, p. 361-368.
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TT-65-30105

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Leningrad. Trudy (USSR)
1963, v. 18, p. 3-128, 131-166,
181-183.
Order from CFSTI or ETC HC $5.00, MF $1.00
TT-65-30092

Akademiya Nauk SSSR. Institut C-616
Fiziologii. Trudy,
1960, v. 9 [539p]
Order from CFSTI HC $8.78 TT-63-11172

Zoologicheskii Zhurnal (USSR) C-622
1964, v. 43, no. 5, p. 647-651,
720-734, 788-793.
Order from CFSTI or ETC HC $2.00, MF $0.50
TT-64-41436

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JPRS: 27,558

ANTIBIOTICS
(Antibiotiki)

1964, VOL. 9, NO. 10.

SOVIET RESEARCH ON ANTIBIOTICS

[Following is the translation of three articles on antibiotics in the Russian-language publication Antibiotiki (Antibiotics), Vol. IX, No. 10, Moscow, October 1964. Additional bibliographic information accompanies each article.]

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BULLETIN OF THE MOSCOW SOCIETY FOR NATURAL RESEARCH. GEOLOGICAL SECTION.
(Moskovskoe Obshchestvo Ispytatelei Prirody. Byulleten'.
Otdel Geologicheskii)

1957, VOL. 32(62) NOS.4-6.

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JPRS: 27,230

CHEMISTRY IN AGRICULTURE
(Khimiya v Sel'skom Khozyaistve)

1964, NO. 8.

THE USE OF CHEMISTRY IN AGRICULTURE

[Following are translations of selected articles from the Russian-language periodical Khimiya v Sel'skom Khozyaystve (Chemistry in Agriculture), No 8, Moscow, Aug 1964. Additional bibliographical information is furnished with the individual articles.]

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1964, VOL. 2, NO. 7(9)

APPLICATION OF CHEMISTRY IN AGRICULTURE

- USSR -

Following is a translation of five articles from the Russian-language periodical Khimiya v Sel'skom Khozyaystve (Chemistry in Agriculture), No 7, Moscow, July 1964. Page numbers and author's name and affiliation accompany each article.

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ELECTRODEPOSITION OF ALLOYS
(Elektroliticheskoe Osazhdenie Splavov)

MOSCOW, 1961.

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C-563

FERROMAGNETIC RESONANCE
(Ferromagnitnyi Rezonans)

MOSCOW, 1961.

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HYDRODYNAMIC LONG-RANGE WEATHER FORECASTING

(Gidrodinamicheskii Dolgosrochnyi Prognoz Pogody)

MOSCOW, 1964

[This report contains translations of the four articles listed in the table of contents below, from the Russian-language publication Gidrodinamicheskiy dolgosrochnyy prognoz pogody (see title), Publishing House of the Soviet Academy of Sciences, Moscow, 1964. Complete bibliographic information accompanies each article.]

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INVESTIGATIONS OF STEELS AND ALLOYS

(Issledovaniya Stalei i Splavov)

MOSCOW, 1964

[Following is the translation of eight articles in the Russian-language book Issledovaniya Staley i Splavov (Investigations of Steels and Alloys), Moscow, 1964, State Committee on Ferrous and Nonferrous Metallurgy, Institute of Metallurgy imeni A. A. Baykov. Additional bibliographic information accompanies each article.]

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MATERIALS ON MATHEMATICAL LINGUISTICS AND MACHINE TRANSLATION
(Materialy po Matematicheskoi Lingvistike i Mashinnomu Perevodu)

1963, VOL. 2.

JPRS: 26,209

FOREIGN DEVELOPMENTS IN MACHINE TRANSLATION AND INFORMATION PROCESSING

No. 161

This serial, published as an aid to U. S. Government, contains translations from foreign-language literature on developments in the following fields of language data processing: machine translation studies; questions on structural linguistics, phonological theory, investigation of morphological models, development of syntactic structures and transform analysis; theory of language communication; logical and linguistic problems of constructing information machines and information languages; logical semantics; mathematical and applied linguistics; automatic programming; organization, storage and retrieval of information; automatic indexing and abstracting; character and pattern recognition; automatic speech input; documentation, etc.

MATERIALS ON MATHEMATICAL LINGUISITICS AND MACHINE TRANSLATION

- USSR -

Following is the complete translation of a collection of articles in the Russian-language book Materialy po matematicheskoy lingvistike i mashinnomu perevodu (Materials on Mathematical Linguistics and Machine Translation), Vol 2, Leningrad University, 1963, pages 2-195. Names of authors and original source pages accompany each article.

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(Meditsinskaya Promyshlennost' SSSR)

1964, VOL. 18, NO. 5. JPRS: 26,580

PROGRESS OF THE MEDICAL INDUSTRY IN THE USSR

/Following is the translation of selected items in the Russian-language periodical Meditsinskaya Promyshlennost' SSSR (Medical Industry of the USSR), Moscow, Vol 18, No 5, May 1964. Specific page numbers appear with each selection/

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1963, VOL. 85, NO. 11.

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(Meteorologiya i Gidrologiya)

1964, NO. 8

- USSR -

Following is a translation of eleven articles in the Russian-language periodical Meteorologiya i gidrologiya (Meteorology and Hydrology), No 8, Moscow, August 1964. The names of the authors are given with each separate article.

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1964, VOL. 33,
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- USSR -

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Izvestiya Vysshikh Uchebnykh Zavedenii. Radiotekhnika

1964, VOL. 7, NO. 2

Izvestiya VUZov: RADIO ENGINEERING

- USSR -

No 2 1964

Following is a translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy: Radiotekhnika (New of Higher Educational Institutions : Radio Engineering), Vol VII, No 2, March-April, 1964, Kiev, pp 131- 259.

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1964, VOL. 23, NO. 5.

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- USSR -

Following is a translation of five articles in the Russian-language periodical Voprosy pitaniya (Problems in Nutrition), Vol. 23, No. 5, Moscow, September-October 1964. Complete bibliographic information accompanies each article.

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1964, VOL. 3.

PROBLEMS OF WAVE-DIFFRACTION AND PROPAGATION

VOLUME III

Radio-Wave Propagation, No 3

- USSR -

Following is a complete translation of issue No 3 of Rasprostraneniye radio-voln (Radio-Wave Propagation), within the collection Problemy difraktsii i rasprostraneniya voln (Problems of Wave Diffraction and Propagation), edited by E. M. Gyunninen and published by Leningrad State University im. A. A. Zhadov, Leningrad, 1964. The pages of the original Russian source are given with each article.

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SCIENCE JOURNAL

(K'o Hsüeh T'ung Pao)

1964, NO. 6

TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY

No. 106

This serial publication contains translations of selected articles on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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SCIENCE JOURNAL

(K'o Hsüeh T'ung Pao)

1964, NO. 7

TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY

No. 118

This serial publication contains summaries or translations (as indicated) of selected articles on Communist China's science and technology, on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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SOLID STATE

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(Russian Original Vol. 6, No. 6, pp. 1573-1915, June, 1964)

Vol. 6, No. 6, pp. 1237-1514 December, 1964

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1964, VOL. 12, NO. 10

SURVEYING AND MAPPING IN EAST GERMANY

[Following are translations of three articles on surveying and mapping activities in East Germany, published in the German-language periodical Vermessungstechnik (Surveying Technique) Vol 12, No 10, October 1964, East Berlin. Complete bibliographic information accompanies each article]

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LENINGRAD HYDROMETEOROLOGICAL INSTITUTE

(Gidrometeorologicheskii Institut, Leningrad. Trudy)

1963, VOL. 18

PROBLEMS OF TURBULENT DIFFUSION IN THE SURFACE LAYER OF THE ATMOSPHERE

[Following is a translation of most of the articles in the Russian-language publication Voprosy Turbulentnoy Diffuzii v Prizemnom Sloye Atmosfery (English version above), Leningrad, 1963, pp 3-201. This publication appears as Trudy, Vypusk 18, Leningradskiy Gidrometeorologicheskiy Institut (Works, Issue 18, of the Leningrad Hydrometeorological Institute). Original-language pages are indicated with each article.]

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TT-65-41149(ATS-56S81R)	747
TT-65-41150(ATS-36S81J)	783
TT-65-41151(ATS-42S81J)	762
TT-65-41152(ATS-25S81J)	762
TT-65-41154(ATS-57F80R)	735
TT-65-41156(ATS-18S81J)	780
TT-65-41157(ATS-57S81G)	794
TT-65-41159(ATS-73S81F)	743
TT-65-41161(ATS-80S81I)	748
TT-65-41162(ATS-83S81G)	759
TT-65-41163(ATS-07S81R)	761
TT-65-41164(ATS-89S80J)	780
TT-65-41166(ATS-44S81R)	759
TT-65-41170(ATS-84S81J)	748
TT-65-41171(ATS-60S81J)	748
TT-65-41172(ATS-58S81R)	786
TT-65-41173(ATS-20S81G)	765
TT-65-60394	767
TT-65-60395	767
TT-65-60397	732
TT-65-60398	797
TT-65-60399	783
TT-65-60521(AEC-tr-6390)	793
TT-65-60524(AEC-tr-6446)	793
TT-65-60528(AEC-tr-6463)	793
TT-65-60529(AEC-tr-6464)	758
TT-65-60531(AEC-tr-6474)	793
TT-65-60532(AEC-tr-6475)	793
TT-65-60561(ORNL-tr-259)	750
TT-65-60637	755
TT-65-60664	757
TT-65-60674	797
TT-65-60687	753
TT-65-60716	754
TT-65-60725	769
TT-65-60727	769
TT-65-60728	767
TT-65-60730	766
TT-65-60734	767
TT-65-60741	769
TT-65-60755	770
TT-65-60757	789
TT-65-60775	784
TT-65-60795	786
TT-65-60798	755
TT-65-60802	753
TT-65-60821	766
TT-65-60822	770
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TT-65-60868(N64-31340)	767
TT-65-60990	756
TT-65-60993	733
TT-65-60994	763
TT-65-61163	796
TT-65-61166	774
TT-65-61182	741
TT-65-61194	755
TT-65-61197	745
TT-65-61198	782
TT-65-61214	740
TT-65-61215	734
TT-65-61216	741
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TT-65-61258	755
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TT-65-61328	758
TT-65-61329	746
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TT-65-61332	754
TT-65-61352	795
TT-65-61355	755
TT-65-61371	741
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TT-65-61381	753
TT-65-61382	797
TT-65-61384	755
TT-65-61401	769
TT-65-61404	751
TT-65-61423	765
TT-65-61425	794
TT-65-61426	751
TT-65-61441	753
TT-65-61444	768
TT-65-61446	774
TT-65-61448	747
TT-65-61454	765
TT-65-61460	773
TT-65-61461	764
TT-65-61462	773
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TT-65-61470	758
TT-65-61471	792
TT-65-61472	789
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TT-65-61474	754
TT-65-61477	754
TT-65-61485	752
TT-65-61497	760
TT-65-61498	735
TT-65-61500	764
TT-65-61501	745
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TT-65-61573	750
TT-65-61576	757
TT-65-61578	756
TT-65-61618	768
TT-65-61619	764
TT-65-61779(AD-611 546)	785
TT-65-61785(AD-611 745)	794
TT-65-61786(AD-611 746)	766
TT-65-61788(AD-611 820)	785
TT-65-61789(AD-611 819)	785
TT-65-61790(AD-611 773)	733
TT-65-61791(AD-611 872)	767
TT-65-61792(AD-611 840)	776
TT-65-61793(AD-611 854)	741
TT-65-61794(AD-611 857)	780
TT-65-61795(AD-611 858)	775
TT-65-61796(AD-611 859)	759
TT-65-61797(AD-611 860)	733
TT-65-61798(AD-611 861)	797
TT-65-61799(AD-611 862)	785
TT-65-61800(AD-611 863)	742
TT-65-61805	768
TT-65-61808(AD-612 366)	753
TT-65-61809(AD-612 367)	771
TT-65-61810(AD-612 368)	769
TT-65-61811(AD-612 369)	741
TT-65-61812(AD-612 370)	767
TT-65-61813(AD-612 371)	792
TT-65-61814(AD-612 372)	785
TT-65-61815(AD-612 373)	732
TT-65-61816(AD-612 374)	765
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TT-65-61820(AD-612 378)	795
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TT-65-61827(AD-612 418)	795
TT-65-61828(AD-612 419)	794
TT-65-61829(AD-612 420)	770
TT-65-61830(AD-612 421)	794
TT-65-61831(AD-612 424)	795
TT-65-61832(AD-612 483)	795
TT-65-61834(AD-612 616)	785
TTIS-NS-323	764
TTIS-NS-324	780
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TTIS-NS-326	780
TTIS-NS-327	792
TTIS-NS-328	791
TTIS-NS-329	762
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TTIS-NS-331	763
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TTIS-NS-334	781

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